HP Z220 Convertible Minitower Workstation

Get workstation performance with next-generation graphics at prices you'd expect from a desktop PC. Available as a Convertible Minitower or a Small Form Factor, HP offers the enterprise-class design that fits you best.

HP recommends Windows® 7.

Designed to fit your business

Choose the expansive Convertible Minitower or the space-saving Small Form Factor design – both complete with tool-free chassis that make adding hard drives and upgrading memory a snap.

Take advantage of world class architecture with the latest in connectivity for external storage devices and peripherals. Transfer data 10x faster than USB 2.0 ports with four integrated super-speed USB 3.0 ports.

Business-built and environmentally aware – featuring a 90% efficient power supply, BFR/PVC free configurations and your choice of ENERGY STAR® qualified configurations.

High performance, no sweat

Increase performance and reduce energy consumption with next-generation 22nm processors, including the Intel® Xeon® processor E3-1200v2 family and 3rd-generation Intel® Core™ processors.

Give memory intensive applications a boost with 1600 MHz DDR3 memory technology and support for ECC memory configurations to help protect your data integrity.

Keep going at a moment's notice with Intel® Smart Response Technology, a disk cache solution that provides solid state drive like performance, faster boot up times and quick application responsiveness.

Optimize your output with integrated HP Performance Advisor. Run reports, diagnose and fine-tune your workstation specific to your professional applications with just one click.

Next-generation graphics

Take presentations to the next level and bring work to life with integrated Intel® HD Graphics.

Access your high-performance 2D, 3D, video and media-rich applications regardless of where you are.

Preinstalled HP Remote Graphics Software gives you the freedom to work remotely without skipping a beat.

Be ready with the bandwidth you need for tomorrow's generation of PCIe 3D graphics cards from NVIDIA and AMD the moment they're available.

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SPECIFICATIONS

Form Factor	Convertible Minitower
Operating system	Windows® 7 Ultimate 64 Windows® 7 Professional 32 Windows® 7 Professional 64 Windows® 7 Home Premium 64 SUSE Linux Enterprise Desktop 11 HP Installer Kit for Linux Red Hat Enterprise Linux WS 5 HP Installer Kit for Linux includes drivers for 64-bit version of Red Hat Enterprise Linux WS 6, and SLED 11
Processor	Intel® Xeon® E3-1290v2 (3.70 GHz, 8 MB cache, 4 cores); Intel® Xeon® E3-1280v2 (3.60 GHz, 8 MB cache, 4 cores); Intel® Xeon® E3-1270v2 (3.50 GHz, 8 MB cache, 4 cores); Intel® Xeon® E3-1245v2 with Intel HD Graphics P4000 (3.40 GHz, 8 MB cache, 4 cores); Intel® Xeon® E3-1240v2 (3.40 GHz, 8 MB cache, 4 cores); Intel® Xeon® E3-1230v2 (3.30 GHz, 8 MB cache, 4 cores); Intel® Xeon® E3-1225v2 with Intel HD Graphics P4000 (3.20 GHz, 8 MB cache, 4 cores); Intel® Core™ i7-3770 with Intel HD Graphics 4000 (3.40 GHz, 8 MB cache, 4 cores); Intel® Pentium® G640 with Intel HD Graphics 2000 (2.80 GHz, 3 MB cache, 2 cores)
Chipset	Intel® PCH C216
Memory	Up to 32 GB 1600 MHz DDR3 Unbuffered SDRAM Memory Slots : 4 DIMM Up to 32 GB ECC/non-ECC. ECC/non-ECC choice and actual memory speed dependent on processor capability.
Internal Storage	250 GB up to 2 TB SATA (7200 rpm) up to 300 GB SATA (10000 rpm) 128 GB up to 300 GB SATA Solid State Drive Integrated SATA (4 ports 3 Gb/s and 2 ports 6 Gb/s) with RAID 0, 1 supported. Requires identical hard drives (speeds, capacity, interface).
Removable media	SATA DVD-ROM; SATA SuperMulti DVD writer
Graphics	Integrated, Intel® HD Graphics 2000; Intel® HD Graphics 4000; Intel® HD Graphics P4000 Professional 2D, NVIDIA Quadro NVS 300 (512 MB); NVIDIA Quadro NVS 310 (512 MB) Entry 3D, AMD FirePro V3900 (1 GB); AMD FirePro V4900 (1 GB); NVIDIA Quadro 410 (512 MB); NVIDIA Quadro 600 (1 GB) Mid-range 3D, ATI FirePro V5900 (2 GB); NVIDIA Quadro 2000 (1 GB) Intel HD Graphics 2000 available on Intel Pentium G6xx processors; Intel HD Graphics 4000 available on quad-core Core i7-37xx processors. Intel HD graphics P4000 available on select Intel Xeon processors. All discrete graphics cards are PCIe.
Audio	Integrated High Definition Realtek ALC221 Audio with Line in, Line Out, Microphone, Headphone
Communications	Integrated Intel 82579LM; Intel Gigabit CT Desktop (selected models)
Ports and Connectors	4 USB 3.0; 5 USB 2.0; 2 microphone; 1 headphone; 1 audio line in; 1 audio line out; 1 RJ-45; 2 PS/2 Other available ports include 5 internal USB 2.0 ports available via two 2x5 and one 1x5 header; 1 serial (selected models); 1 22-in-1 Media Card Reader (selected models); 1 DisplayPort and 1 DVI-I single link output from Intel HD graphics (on select processors only); 1 IEEE 1394a (via optional PCIe card); 2 IEEE 1394b (selected models).
Input Device	HP USB Standard Keyboard; HP PS/2 Standard Keyboard; HP USB CCID SmartCard Keyboard HP USB Laser Mouse; HP USB 2-Button Optical Scroll Mouse; HP PS/2 Optical Scroll Mouse; HP USB Optical 3-Button Mouse
Security	Solenoid Hood Lock & Hood Sensor (selected models); Security Cable with Kensington Lock (selected models); Business PC Security Lock Kit (selected models); Trusted Platform Module (TPM) 1.2 (TPM module disabled where use is restricted by law)
Dimensions	17.8 x 45.5 x 44.7 cm Standard minitower orientation
Weight	Starting at 10.4 kg Exact weight depends upon configuration
Energy efficiency compliance	ENERGY STAR® qualified configurations available, EPEAT® where HP registers commercial desktop products. See www.epeat.net for registration status in your country.
Power	400W 90% efficient, wide-ranging, Active Power Factor Correction
Expansion solutions	1 PCIe Gen3 x16; 1 PCIe Gen2 x4 (x16 connector); 1 PCIe Gen2 x4 (x8 connector); 2 PCIe Gen2 x1; 2 PCI; All slots are full-height/full-length. The PCIe x8 connector is open ended allowing a PCIe x16 card to be seated in the slot. However, this slot supports only half-length cards. Three 5.25"Three 3.5"
Warranty	3-year worldwide parts, labour and next business day onsite service Terms and conditions may vary, restrictions apply

For more information, please visit **www.hp.eu/workstations**

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ACCESSORIES AND SERVICES

HP 2.4GHz Wireless Keyboard and Mouse

This stylish set delivers the convenience, comfort, and elegance of wireless keyboard and laser mouse operation to the computer desktop.

Product number: NB896AA

HP SpaceExplorer USB 3D Input Device

The intelligent 3D motion controller, deliver all the functions you need, the second you need them. HP is the only vendor also offering a Performance Tuning Framework for simplified installation and uninterrupted productivity.

Product number: RY429AA

HP 160GB SATA Solid State Drive

Solid State Drives (SSDs) are fast becoming a real force with respect to storage in the computer industry. With no moving parts, storage is no longer bound by mechanical barriers to higher performance. HP SSDs for workstations offer overall performance typcially beyond that of SAS 15k rpm HDDs (Hard Disk Drives).

Product number: LZ704AA

NVIDIA Quadro 600 1.0GB Graphics Card

The low-profile NVIDIA Quadro 600 is the newest entry-level professional graphics solution, delivering maximum productivity and flexibility for engineers and designers.

Product number: WS093AA

5-year Next Business Day Onsite

Care Pack

Receive 5 years of next business day onsite repair from an HP-qualified technician for your computing device, if the issue cannot be solved remotely.

Product number: U7944E

For more information, please visit www.hp.eu/hpoptions

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